

# MealTree

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## Application Overview

Planning and coordinating meals can be difficult when schedules are in flux. MealTree allows users to create and share meal planning calendars, so everyone can stay up-to-date on the plan. After signing into MealTree, the user has an option to create a new meal calendar or join a pre-existing calendar. Recipes can then be added by any user linked to the calendar. A recipe can be manually entered, added by selecting a recipe from their favorites list, or by searching for new recipes on MealTree.

# Application Features

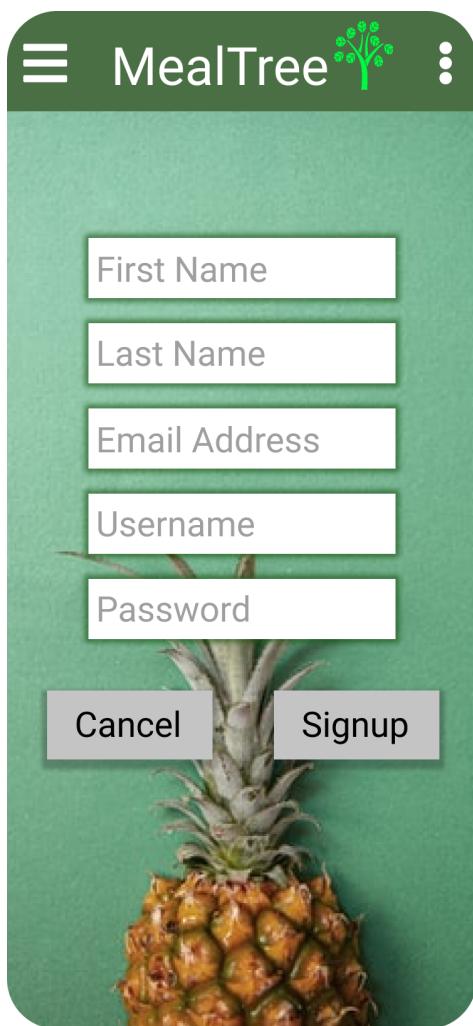
## 1.1 Login Page (Mobile)



Users login to the app by filling in their username and password on the login page. A button for signing up allows a new user to register through the Signup page (wireframe excluded). The Signup page contains text inputs for a username and password. The user can navigate back to the login page with a back button or complete the signup form and submit it, at which point they will be logged in as a new user and pushed to the dashboard page.

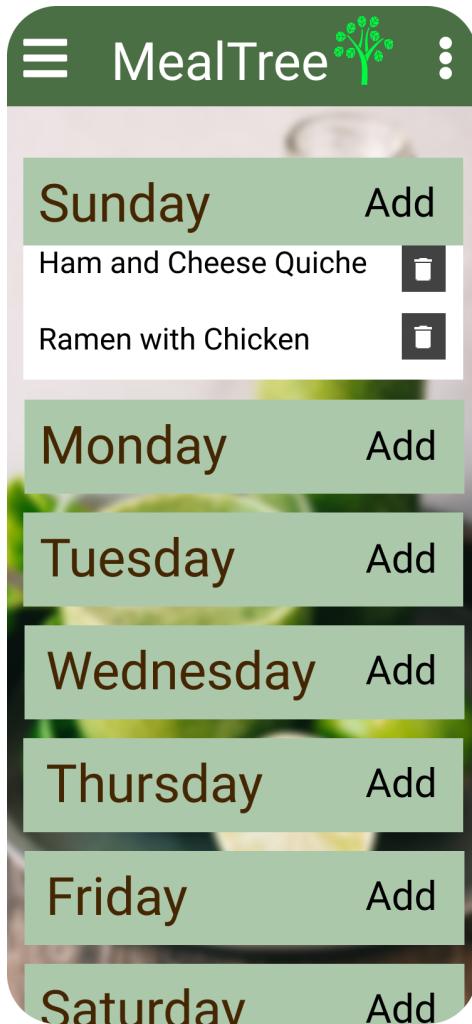
Stretch Goal: Forgot password email sent to user for a new password.

## 1.2 Signup Page (Mobile)



To sign up for MealTree, the user needs to create a profile consisting of their first and last name, an email address, username, and password. Cancel returns the user to the [Login Page](#). The Signup button logs the user in and sends them to the [Calendar View](#).

## 1.3 Calendar View



After logging in, the user is directed to their [Calendar View](#). The current day's meal list is displayed under the day in an accordion button. The daily list is opened or closed on click. The [Recipe View](#) is accessed by clicking on a recipe name. The trash icon brings up a modal which verifies if the user wants to delete the recipe from the calendar.

\*Include an arrow icon on the day that switches between up and down based on whether the accordion is opened or closed. Could also change color

If the user is not part of a calendar, two buttons are displayed: create a new calendar or join an existing calendar.

Creating a new calendar places a blank calendar on the user's screen.

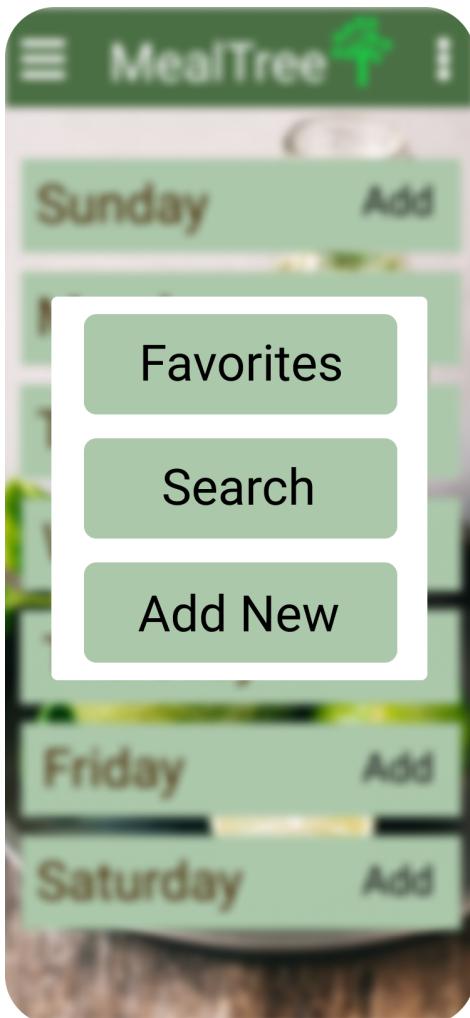
Joining an existing calendar requires an invite code from another user. Entering the invite code, populates the current user's calendar with the invitee's calendar. Both parties can modify the calendar.

## 1.4 Recipe View

The screenshot shows a mobile application interface for a recipe card. At the top is a header bar with the "MealTree" logo, which includes a stylized green tree icon. Below the header is the title "Maruchan Ramen". To the right of the title is a small image of a Maruchan Ramen noodle soup package, specifically the "Pork Flavored" variety. Underneath the title, it says "Servings: 2". Below the package image, there is a summary of times: "Estimated Prep Time: 2 mins", "Estimated Cook Time: 3 mins", and "Total Estimate: 5 minutes". The main content area contains three numbered steps: 1. Boil two cups of water in a saucepan, add noodles and cook three minutes, stirring occasionally. 2. Turn off heat, add contents of seasoning package, stir. 3. Serve immediately for best results. Makes 2 - 8oz servings. At the bottom of the card are two buttons: a light gray "Edit" button on the left and a darker gray "Delete" button on the right.

The [Recipe View](#) displays all the information that was entered in by the user (see [1.6 New Recipe Form](#)): recipe name, ingredients for the recipe, and cooking directions. For API recipes, only a Delete button exists.

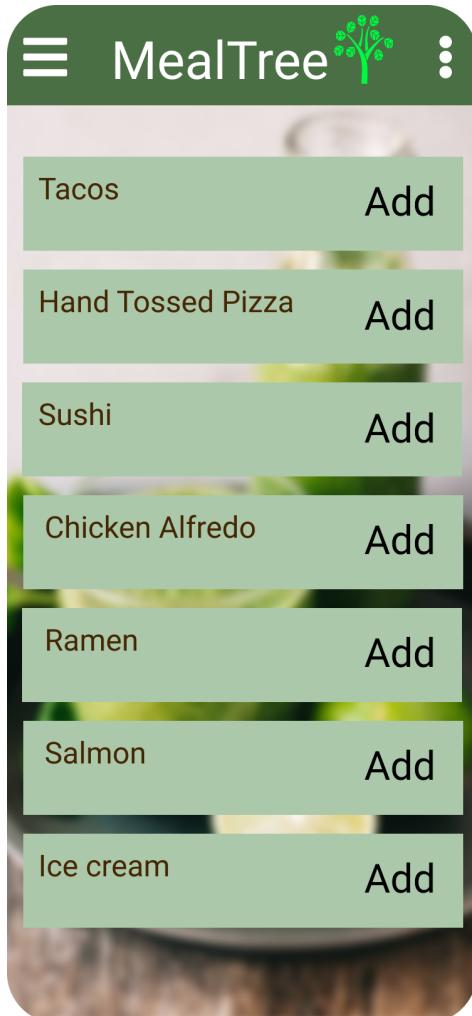
## 1.5 Calendar Modal



Clicking the Add button produces a modal popup, asking the user to select whether they want to add a recipe from their favorites list, search for a new recipe, or manually add a new recipe.

Stretch goal: implementing the search API option.

## 1.6 Favorites View



The [Favorites View](#) shows all recipes the user has manually added (see [1.6 New Recipe Form](#)). Clicking the recipe name displays the [Recipe View](#).

If the user clicks the Add button and has already selected a day on [Calendar View](#), then the recipe is added to that day on [Calendar View](#).

If the user clicks the Add button and has not selected a day on [Calendar View](#), the user is given a 'date-picker' to choose which day the meal should be added to.

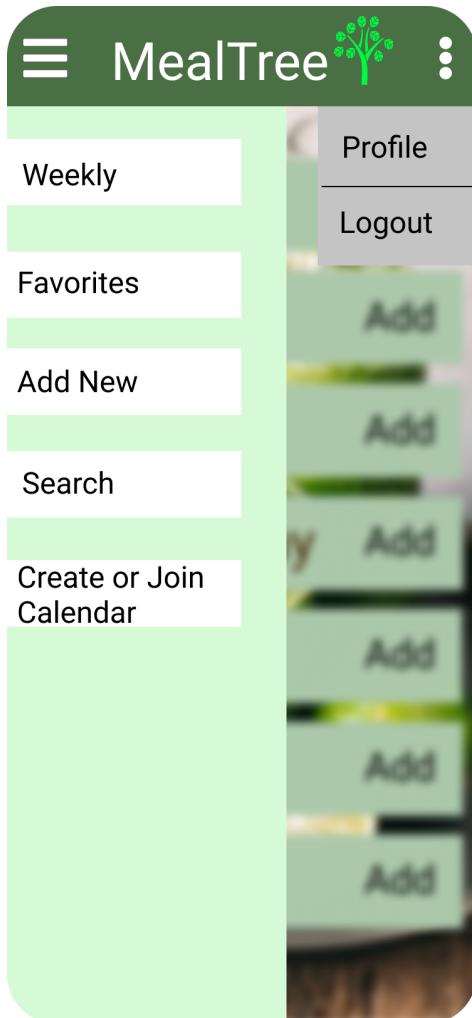
## 1.7 New Recipe Form

The screenshot shows the MealTree mobile application interface for adding a new recipe. At the top, there is a navigation bar with three horizontal lines on the left, the 'MealTree' logo in the center, and three vertical dots on the right. Below the navigation bar, the main content area has a background image of a bowl of food.

The first input field is labeled 'Recipe Name'. The second input field is labeled 'Ingredient' and contains a button labeled '+ Add Ingredient'. The third input field is labeled 'Description / cooking instructions go here'. Below these fields is a button labeled 'Image Upload'. At the bottom of the form is a large button labeled 'Add Recipe'.

Users manually add new recipes to their collection by filling out the [New Recipe Form](#). The form requires a recipe name, ingredients, and cooking instructions. Multiple ingredients can be added by clicking the 'Add Ingredient' button. When the recipe information is complete, clicking the Add Recipe button adds the recipe to the user's [Favorites View](#)

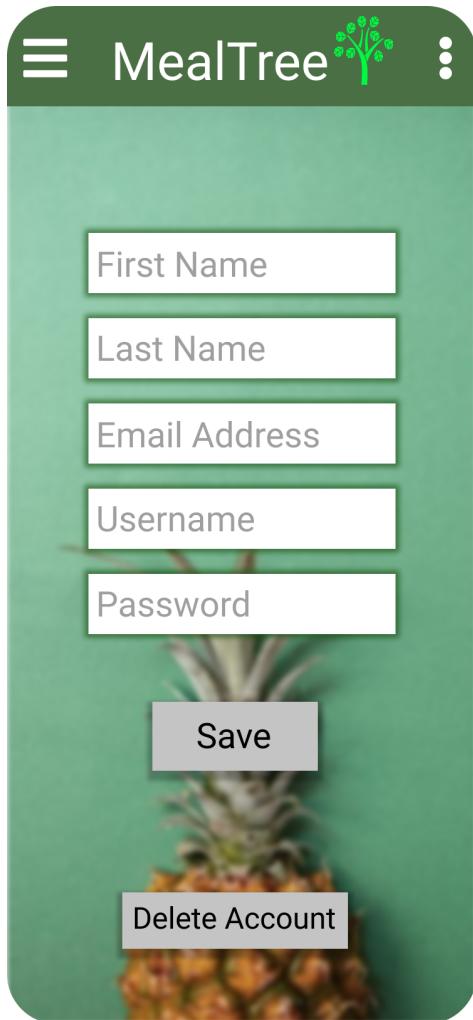
## 1.8 Drop-down Menus



The menu option on the top left allows the user to switch quickly between major screens: [Calendar View](#), [Favorites View](#), [New Recipe Form](#), Search New Recipes, Create or Join A Calendar.

The ellipses drop-down allows the user to view their Profile Page and logout of the app.

## 1.9 Profile Page



Contains the same information from the [Signup Page](#). An Edit button toggles the inputs from deactivated to active, which allows the user to edit the inputs and Save. Delete account removes the user account, created calendars, and all created recipes.

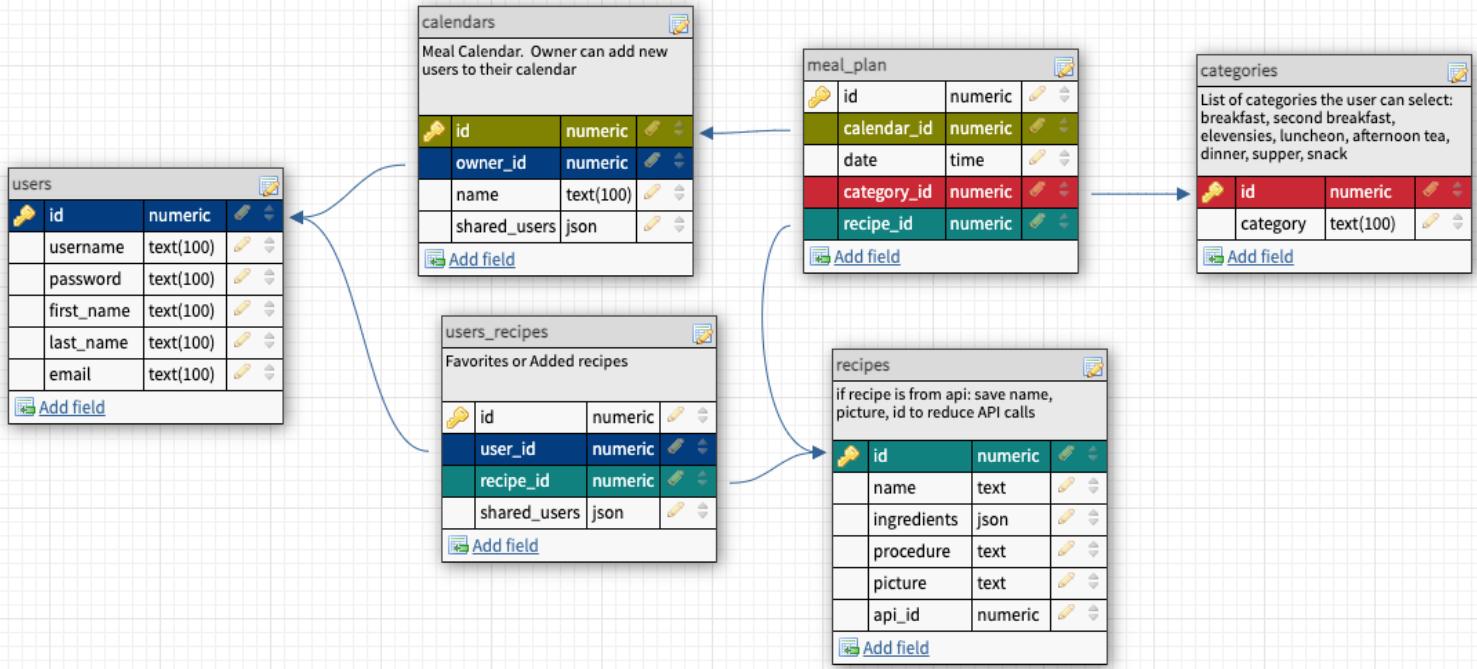
Stretch goal: Allow users to view other users' profile pages.

# Project Milestones and Schedule

(Milestones are completed, working features from the above listing. Think carefully about the order you will need to build things and when you expect to be done with them. The purpose of this section is to consider the overall timeline and how much work really needs to get done. The Due Date is your best guess and may change.)

Milestone (Should match a Feature from Above)	Hours Est.	Due Date	Base or Stretch
Database Setup	1	8/8	Base
Client Side Scaffolding	2	8/8	Base
Node Server Setup	6	8/8	Base
Login Page Setup	3	8/8	Base
Signup Page w/ post to profile	4	8/8	Base
Navigation/Header	3	8/8	Base
Weekly Calendar View (homepage)	6	8/8	Base
Modal / Add recipe to page setup	2	8/8	Base
User Recipes View	4	8/8	Base
Recipe View	4	8/8	Base
New Recipe Form	4	8/8	Base
Monthly Calendar View	4	8/8	Base

# Database Documentation



POST	/calendar	Creates a new calendar
PUT	/calendar/:id	Adds/removes a shared_user to the calendar
PUT	/calendar	Edit calendar name
DELETE	/calendar	Deletes a calendar
GET	/weeklyCalendar	Returns weekly calendar view with selected recipes
POST	/weeklyCalendar	Adds recipe to day
DELETE	/weeklyCalendar/:id	Removes recipe from day
GET	/userRecipes	Returns a list of the user's recipes
GET	/userRecipes/:id	Returns specific recipe
POST	/userRecipes	Adds a new recipe to the user recipe list
PUT	/userRecipes/:id	Edits an existing recipe

DELETE	/userRecipes/:id	Delete an existing recipe
PUT	/userRecipes/:shared_user_id	Adds/removes users from seeing recipes
GET	/profile	Returns a user's profile details
PUT	/profile	Edit a user's profile details
GET	/profile/:id	Return another user's profile

# Browsers

Application will fully support browsers listed below. All browsers or versions not listed below are considered out of scope.

Browser Name	Mobile or Desktop?	Version
Chrome	Both	58 or higher
Firefox	Both	54 or higher
Edge	Both	14 or higher
Safari	Both	10 or higher
Opera	Both	55 or higher

# Assumptions

While completing this estimate the following assumptions were made.

- The recipe API(s) used will remain consistent in how data is passed to the requester.

# Technologies

- Node
- Express
- React
- Redux-Saga
- Postgresql
- JavaScript
- Material UI
- Spoonacular Recipe API